

What is claimed is:

1. A movable contact unit with operating projections, comprising:

a plurality of domed movable contacts opening downward, the movable contacts formed out of electrically conductive and resilient sheet metal;

a base film holding the movable contacts in place at a bottom surface thereof; and

a plurality of projecting members fixed to a top surface of the base film by an adhesive to correspond to the respective movable contacts, each of the projecting members facing a central portion of the corresponding movable contact across the base film,

wherein the amount of adhesive fixing a specified projecting member of the plurality of projecting members to the base film differs from the amount of adhesive fixing another projecting member.

2. The movable contact unit of claim 1, further comprising:

an adhesive layer above the bottom surface of the base film,

wherein the plurality of movable contacts is held by the adhesive layer.

3. The movable contact unit of claim 1, wherein the adhesive fixing the specified projecting member and the adhesive fixing another projecting member differ from each other in diameter when cured.

4. The movable contact unit of claim 1, wherein the plurality of movable contacts is formed to be turned inside out by similar operating forces, respectively.

5. The movable contact unit of claim 1, wherein:

the plurality of projecting members is formed out of a film of resin which passes not less than 70% of light; and

5 the adhesive is an adhesive resin which cures with ultraviolet light.

6. A method of mounting operating projections of a movable contact unit, the method comprising the steps of:

(a) forming an adhesive into a first adhesive layer having a uniform
10 thickness;

(b) preparing an in-process workpiece including a specified arrangement of a plurality of movable contacts held to a bottom surface of a base film by a second adhesive layer;

(c) causing the adhesives to adhere to respective leading end parts
15 of a plurality of transfer pins, arranged to correspond to the specified arrangement of the movable contacts, by:

(c1) lowering the leading end parts into the first adhesive layer; and

(c2) raising the transfer pins;

20 (d) transferring the adhesives, which have adhered to the respective leading end parts of the transfer pins in the step (c), to a top surface of the base film with each of the adhesives corresponding to a central portion of the corresponding movable contact;

(e) placing projecting members on the respective adhesives
25 transferred; and

(d) curing the adhesives,

wherein a specified transfer pin of the plurality of transfer pins

differs from another transfer pin in one of shape and size so that the amount of adhesive adhering to the specified transfer pin differs from the amount of adhesive adhering to another transfer pin.

5 7. The method of claim 6, wherein:

the plurality of transfer pins is cylindrical; and

the specified transfer pin differs from another transfer pin in diameter.

10 8. The method of claim 6, wherein the specified transfer pin differs from another transfer pin in length.

9. The method of claim 6, wherein:

the adhesive is an adhesive resin which cures with ultraviolet light;

15 the projecting members are formed out of one of a light-transmitting film of resin and a semitransparent film of resin; and

in the step (f), the adhesive resins transferred are cured by the ultraviolet light applied above the projecting members.

20 10. An operating panel switch comprising:

a plurality of domed movable contacts opening downward, the movable contacts formed out of electrically conductive and resilient sheet metal;

a base film formed with an adhesive layer at a bottom surface
25 thereof, the base film holding the movable contacts in place by means of the adhesive layer;

a plurality of projecting members fixed to a top surface of the base

film by an adhesive to correspond to the respective movable contacts, each of the projecting members facing a central portion of the corresponding movable contact across the base film; and

5 a wiring board including a plurality of fixed contacts arranged to face the movable contacts, respectively,

wherein the amount of adhesive fixing a specified projecting member of the plurality of projecting members to the base film differs from the amount of adhesive fixing another projecting member, and the base film is bonded to the wiring board by the adhesive layer.